

Work Order ID 158094

Thursday, March 09, 2017 1:59:10 PM

158094

Page 1

Item ID: D2484

Accept

N900040100

Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Locknut

Start Date: 3/13/2017 Start Qty: 20.00

20

Cust Item ID:

Required Date: 3/27/2017 Req'd Qty: 20.00

20

Customer:

Reference: SCHEDULED

Approvals: Process Plan:

DAS
21
9-89

MAR 10 2017
Date: MAR 10 2017

Tooling:

Date:

Run Start ***NR1***

QC:

Date:

SPC (Y/N):

Date:

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr

Revision Nbr

D2484

Rev A

100

0.00

100

Purchasing

Purchasing

PURCHASING

Memo

0.00

Issue P/O: 35574 Order per Dwg D2484 Material release note required
MCMaster p/n: 91343A100

20

MAR 13 2017

DAS
13
9-89

110

Receive & Inspect for Damage & Mat'l Certs

0.00

110

Packaging

Packaging

Memo

0.07

Ensure Material Release Note is attached

120

QC5- Inspect part completeness to step on W/O

0.00

120

QC

Quality Control

Memo

0.07

201801703-20

20

DAS
38
2-89
MAR 20 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width: 100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																						
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																						
Large Fab ☐	Composite ☐	Supplier ☐																							
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																		
Description Work Order Deviation				Disposition				Completed By																	
Root Cause		FAULT CATEGORY																							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	OTHER : ☐																			

Work Order ID 158094

Thursday, March 09, 2017 1:59:11 PM

158094

Page 2

Item ID: D2484

Accept

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Revision ID:

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Item Name: Locknut

Start Date: 3/13/2017 Start Qty: 20.00

20

Cust Item ID:

Required Date: 3/27/2017 Req'd Qty: 20.00

20

Customer:

Reference: SCHEDULED

Approvals: Process Plan:

Date:

Tooling:

Date:

Run Start ***NR1***

QC:

Date:

SPC (Y/N):

Date:

Stop ***NR2***Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run HoursTool ID Tool # Plan
Code Accept Reject Reject Insp.
Qty Qty Number Stamp

130

Identify as per dwg & Stock Location CA

0.00

130

Packaging

Memo

0.03

Packaging

20 MAR 21 2017

DAS
6
9-89

140

QC21- Final Inspection - Work Order Release

0.00

140

QC

Memo

0.33

Quality Control

17/3/21/17
MF
17-3-21

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

Thursday, March 09, 2017 1:59:15 PM

Work Order ID: 158094

Parent Item: D2484

Parent Item Name: Locknut

158094

D2484

Start Date: 3/13/2017

Start Qty: 20.00

Required Date: 3/27/2017

Required Qty: 20.00

Comments: IPP A00.03.02New IssueEC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2484P		Purchased	No			110	Each	0.0000	1	20			
									**				

D2484P

Lock Nut

20x SP17-03-20.

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
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Description Work Order Deviation				Disposition					
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Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

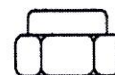


DESIGN B WILLIAMS	DRAWN BY B WILLIAMS	DART AEROSPACE LTD VICTORIA INTERNATIONAL AIRPORT, CANADA	
CHECKED BW	APPROVED 	DRAWING NO. D2484	REV. A SHEET 1 OF 1
DATE 95:10:06		TITLE LOCK NUT	

SPECIFICATION CONTROL DRAWING

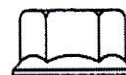


1/4-20 LOW PROFILE
NYLON LOCK NUT



OR

1/4-20 SERATED FLANGE
LOCK NUT



SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 158094 NUS
1703-10



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO35574

Purchase Order Date 3/13/2017

PO Print Date 3/13/2017

Page Number 1 of 5

Order From :

VU-MCM001

Ship To : DART AEROSPACE LTD

MCMaster-CARR SUPPLY CO,
P.O. BOX 7690
CHICAGO, IL 60680-7690
US

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

MAR 13 2017

Contact Name

Vendor Phone 330 995 5500

Ship To Contact

Ship To Phone

Ship Via: Purolator ground ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 10

Currency

USD

FOB

FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
	Line Comments		Promise Date				
	Delivery Comments						
1	9372T21	Ring	3/15/2017 Yes 3/15/2017	FN	60.00 Each	\$0.56	\$33.35

AS PER DWG D5321 REV. B
B158111
6 PKS OF 10 PCS

Line Total: \$33.35

2	D2484P	Lock Nut	3/15/2017 Yes 3/15/2017		20.00 Each	\$0.38	\$7.66
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AS PER DWG D2484 REV. A
B158094
MCMaster P/N: 91343A100

Line Total: \$7.66

Note:

3/13/2017



200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada
Attention: Jean-Francois / Chantal / Jesse

Purchase Order
PO35574
Order Placed By
Chantal Lavoie

McMaster-Carr Number
8317184-02

Page 1 of 1
03/13/2017

Line	Product	Ordered	Shipped
2	91343A100 316 Stainless Steel Serrated Flange Locknut Super-Corrosion-Resistant, 1/4"-20 Thread Size, Packs of 10	2 Packs	2
3	97395A451 Corrosion Resistant Dowel Pin Type 316 Stainless Steel, 1/8" Diameter, 3/4" Length, Packs of 10	3 Packs	3
4	6718K52 303 Stainless Steel Industrial-Shape Air Hose Coupling Plug, 1/4 Coupling Size, 1/4 NPTF Female End	10 Each	10
5	93070A107 Alloy Steel Low-Profile Socket Head Screw Black-Oxide, M4 x 0.7 mm Thread, 20 mm Long, Packs of 50	1 Pack	1
6	4471T52 Wear-Resistant A2 Tool Steel Tight-Tolerance Sheet, 3/8" Thick, 12" x 12"	1 Each	1
7	71455K64 Size AAA Alkaline Disposable Batteries, Packs of 24	1 Pack	1
8	71455K58 Size AA Alkaline Disposable Batteries, Packs of 144	1 Pack	1
9	4987A84 Permanent Bench-Top Plier Clamp	2 Each	2
10	5801A12 All-Angle Magnetic Retriever Aluminum Head, 7-3/4" Length, Approximately 2 lbs. Pull	1 Each	1
11	7385A52 Telescoping Magnetic Retriever High-Visibility Orange, 5-7/8"- 25 7/8" Long, 1-1/2 lb Pull	2 Each	2

Shipped separately from our New Jersey warehouse on 03/13

1	9372T21 Welded Nickel-Plated Steel D-Ring for 1" Webbing Width	6 Packs	6
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Notes about your shipment

The U.S. Department of Transportation regulates the shipping of lines 7 and 8. By purchasing from McMaster-Carr Supply Company, you agree not to transport or permit others to transport purchased items except in accordance with U.S. law and any other applicable laws.

McMaster-Carr Supply Company
200 Industrial Pkwy
Aurora, ON 44702-8087 USA
Phone: 331-995-5500 Fax: 331-995-9600
E-Mail: cde sales@mcmaster.com
Employer Identification Number (EIN): 36-1158720

Invoice: 18156244
Purchase Order: PO35574
Release:
McMaster-Carr Number: 8317184-02

ORIGINAL COMMERCIAL
INVOICE
CERTIFICATE OF ORIGIN

Ultimate Destination:
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Shipped: 13-Mar-2017 FOB: ORIGIN
Shipper's Export Declaration (SED):
NO EEI 30.36

Intermediate Consignee:

Bill To:
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Tax Number:

For:

Billing
Attention:
Shipping Jean-Francois / Chantal / Jesse
Attention:
Contact:

Line	Item	Description	Qty & Unit	Unit Price	Extension
2	100	316 Stainless Steel Flanged Flange Locknut Super-Corrosion-Resistant, 1/4"-20 Thread Size, Packs of 10 Country of Origin: United States Schedule B #: 731.15.00 CCN #: EAR99	2 PK	\$3.80	\$7.60
3	101	Corrosion Resistant 316 Type 316 Stainless Steel, 1/8" Diameter, 3/4" length, Packs of 10 Country of Origin: United States Schedule B #: 731.15.00 CCN #: EAR99	3 PK	\$12.26	\$36.78
4	61452	303 Stainless Steel End-Shape Air Hose Coupling Plug, 1/4 Coupling Size, 1/4 NPT Female End Country of Origin: United States Schedule B #: 848.19.00 CCN #: 2B999	10 EA	\$5.81	\$58.10
5	107	Low-Profile Hex Head Screw Black-Oxide, M4 x 0.7 mm Thread, 10 mm long, Pack of 10 Country of Origin: United States Schedule B #: 721.15.00 CCN #: EAR99	1 PK	\$7.48	\$7.48

SP17-03-20

DAS
38
9-89

Your order is subject only to our terms and conditions, available at www.mcmaster.com or from our Sales Department

Shipped (in kgs): 15 Net Weight of Packages: 1

Package Dimensions: 12 CM 10 CM 10 CM CUBIC M

Invoice Amounts:
Merchandise Amount: \$530.40
Canadian GST/HST: \$71.55
Shipping Charges: \$19.91
Total (In USD): \$621.86

Payment Terms: 2% discount on merchandise only if paid within 10 days, net 30 days

Remit payment to:
(by wire transfer)
Bank of America
222 Broadway
New York, NY 10038
Account 86666-02021
SWIFT BOFAUS3N
(by mail)
McMaster-Carr Supply Company
PO Box 7690
Chicago, IL 60680-7690 USA

Authorized Signature: Date: 13 Mar-2017

Name: Sarah Weinberg Title: Operations Mgr.

McMaster-Carr Supply Company
 200 / Industrial Parkway
 Aurora, IL 60007-8087 USA
 Phone: 708-555-5500 Fax: 708-935-9600
 E-Mail: @mcmaster.com
 Identification Number (EIN): 30-158720

Invoice: 18156244
 Purchase Order: PO35574
 Released:
 McMaster-Carr Number: 8317184-02

ORIGINAL COMMERCIAL
INVOICE
 CERTIFICATE OF ORIGIN

Line	Description	Qty & Unit	Unit Price	Extension
6	Steel Tight-Tolerance Sheet, 3/8" Thick, 12" x 12" Country of Origin: United States Schedule B #: 7209.15.00 CCN #: EAR99	1 EA	\$177.14	\$177.14
7	Size AAA Alkaline Disposable Batteries, Packs of 24 Country of Origin: United States Schedule B #: 8507.10.00 CCN #: EAR99	1 PK	\$16.46	\$16.46
8	Size AA Alkaline Disposable Batteries, Packs of 144 Country of Origin: United States Schedule B #: 8507.10.00 CCN #: EAR99	1 PK	\$81.82	\$81.82
9	Ant Bench Clamp Country of Origin: United States Schedule B #: 8473.20.00 CCN #: EAR99	2 EA	\$59.42	\$118.84
10	Magnetic Cover Aluminum Head, 7-3/4" Length, Approximately 2 Country of Origin: United States Schedule B #: 8507.10.00 CCN #: EAR99	1 EA	\$8.04	\$8.04
11	Telescoping Magnifying Glass, High-Visibility Orange, 5-7/8" - 25 7/8" Long, 1 1/2" Dia. Country of Origin: People's Republic of China Schedule B #: 8507.10.00 CCN #: EAR99	2 EA	\$9.07	\$18.14

Department of Transportation regulates the shipping of lines 7 and 8. McMaster-Carr Supply Company, you agree not to transport purchased items except in accordance with U.S. law and regulations.

These items are controlled by the U.S. Government and authorized for export only to the country of destination for use by the ultimate consignee or end-user(s) herein specified. They may not be resold, transferred, or otherwise disposed of, to any person or entity in any country or to any person other than the authorized consignee(s), either in their original form or after being reworked, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.

Package Number(s) for shipment:
 18156244